

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061572

Luminaire Tested: S125RDRP-S1270D935-X4F0-XX-UDD-SVL-B

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2406-143-47)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S1270D935-X4F0-XX-UDD-SVL-B
Description: DEFINE 5 BLACK REGRESSED DIRECT RECESSED HOUSING WITH SILVER STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

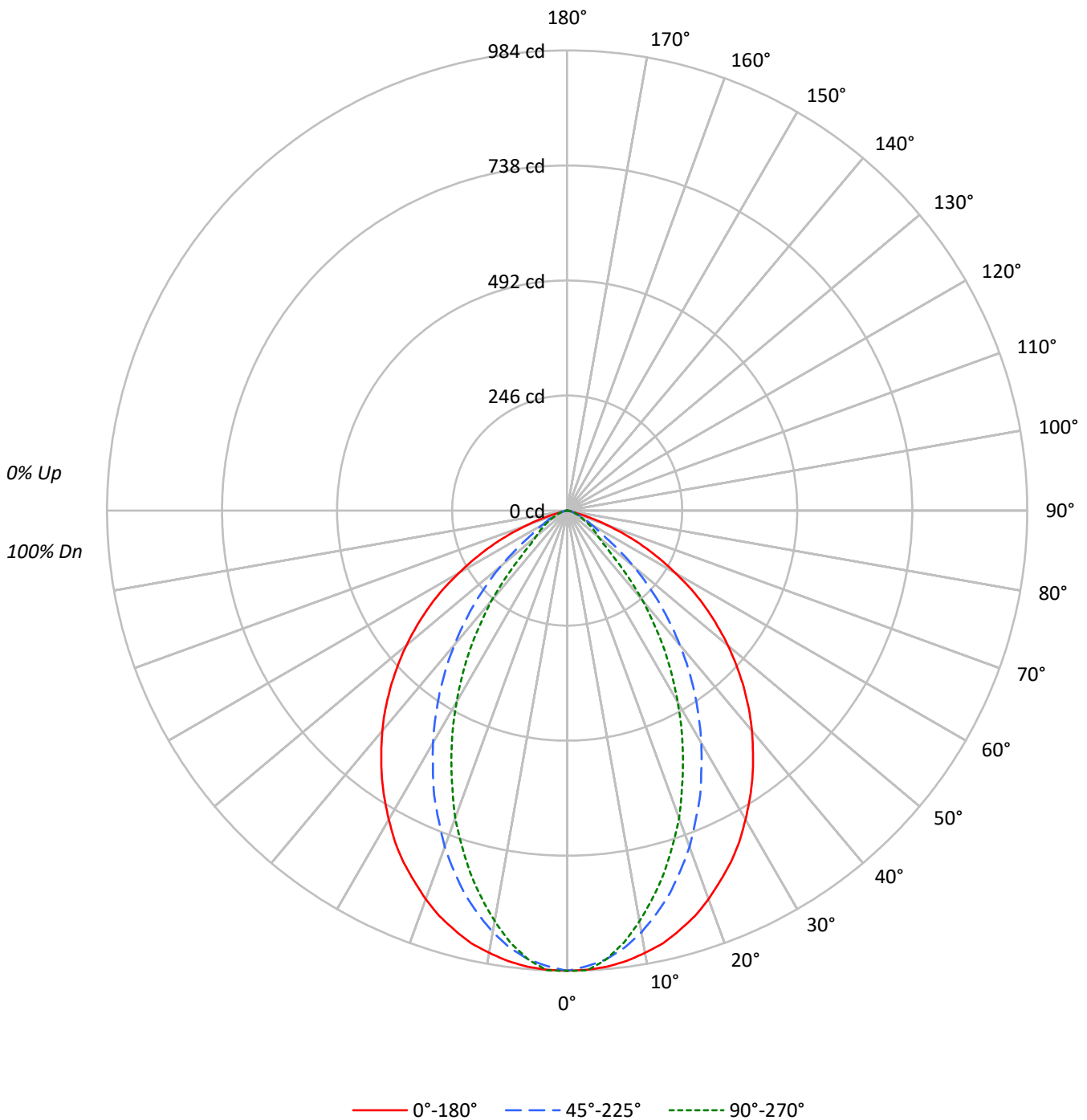
Lumens per Lamp: N/A
Luminaire Lumens: 1423.2 lumens
Efficiency: N/A
Efficacy: 34.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 0.85 / 1.01
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80
3	97	89	82	77	95	87	81	77	84	79	75	82	78	74	79	76	73	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	48	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	39
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6775	6775	6775
5°	6766	6654	6654
10°	6714	6399	6233
15°	6622	6043	5713
20°	6477	5607	5130
25°	6298	5111	4455
30°	6064	4563	3757
35°	5811	3993	3048
40°	5529	3371	2259
45°	5199	2703	1363
50°	4808	1983	937
55°	4338	1216	780
60°	3685	826	620
65°	2913	632	489
70°	1838	453	403
75°	599	333	333
80°	198	250	297
85°	103	197	197

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5199 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	6.4
10°-20°	240.4	16.9
20°-30°	316.1	22.2
30°-40°	310.6	21.8
40°-50°	235.0	16.5
50°-60°	142.5	10.0
60°-70°	67.3	4.7
70°-80°	17.6	1.2
80°-90°	2.7	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	647.5	45.5
0°-40°	958.1	67.3
0°-60°	1335.7	93.9
0°-90°	1423.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	979	976	963	964	963	93
15°	929	904	848	815	802	262
25°	829	766	673	610	586	381
35°	691	599	475	391	363	432
45°	534	420	278	176	140	411
55°	361	248	101	69	65	322
65°	179	91	39	32	30	176
75°	22	15	12	12	12	35
85°	1	1	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.0	984.0	984.0	984.0	984.0
2.5°	982.8	982.8	975.3	984.0	984.0
5°	979.0	976.5	962.8	964.0	962.8
7.5°	971.5	966.5	942.8	936.5	931.5
10°	960.3	950.3	915.3	900.3	891.5
12.5°	947.8	930.3	882.7	861.5	847.7
15°	929.0	904.0	847.7	815.2	801.5
17.5°	909.0	872.7	806.5	767.7	750.2
20°	884.0	841.5	765.2	717.7	700.2
22.5°	856.5	806.5	717.7	665.2	641.4
25°	829.0	766.5	672.7	610.2	586.4
27.5°	797.7	726.5	621.4	556.4	530.1
30°	762.7	686.4	573.9	506.4	472.6
32.5°	727.7	645.2	523.9	450.1	416.4
35°	691.4	598.9	475.1	391.4	362.6
37.5°	652.7	555.2	425.1	337.6	303.8
40°	615.2	511.4	375.1	282.6	251.3
42.5°	575.2	467.6	325.1	228.8	193.8
45°	533.9	420.1	277.6	176.3	140.0
47.5°	491.4	377.6	230.1	130.0	105.0
50°	448.9	332.6	185.1	96.3	87.5
52.5°	405.1	288.8	140.0	80.0	76.3
55°	361.4	247.6	101.3	68.8	65.0
57.5°	316.3	202.6	76.3	58.8	55.0
60°	267.6	162.5	60.0	48.8	45.0
62.5°	222.6	127.5	48.8	40.0	37.5
65°	178.8	91.3	38.8	32.5	30.0
67.5°	133.8	61.3	30.0	25.0	25.0
70°	91.3	40.0	22.5	20.0	20.0
72.5°	55.0	23.8	16.3	16.3	16.3
75°	22.5	15.0	12.5	12.5	12.5
77.5°	7.5	8.8	8.8	10.0	10.0
80°	5.0	5.0	6.3	7.5	7.5
82.5°	2.5	3.8	3.8	5.0	5.0
85°	1.3	1.3	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.98	17.31	16.34	17.62	17.94	6.64	7.97	7.00	8.28	8.59
	3H	16.68	17.86	17.06	18.19	18.56	7.41	8.59	7.79	8.92	9.29
	4H	16.70	17.80	17.10	18.15	18.53	7.66	8.76	8.07	9.11	9.49
	6H	16.63	17.64	17.05	18.01	18.40	7.84	8.85	8.26	9.22	9.61
	8H	16.59	17.54	17.02	17.93	18.34	7.89	8.84	8.32	9.23	9.64
	12H	16.55	17.46	16.98	17.84	18.27	7.90	8.80	8.33	9.19	9.62
4H	2H	15.81	16.90	16.21	17.25	17.64	7.12	8.22	7.53	8.57	8.95
	3H	16.55	17.45	16.97	17.85	18.25	8.03	8.92	8.44	9.33	9.73
	4H	16.57	17.37	17.01	17.79	18.23	8.34	9.14	8.78	9.56	10.00
	6H	16.51	17.20	16.97	17.64	18.11	8.60	9.29	9.07	9.73	10.20
	8H	16.46	17.10	16.93	17.55	18.02	8.67	9.31	9.14	9.75	10.22
	12H	16.42	16.98	16.90	17.46	17.94	8.69	9.26	9.18	9.74	10.21
8H	4H	16.46	17.09	16.92	17.54	18.01	8.46	9.09	8.93	9.54	10.01
	6H	16.38	16.90	16.88	17.40	17.88	8.77	9.29	9.28	9.79	10.27
	8H	16.33	16.79	16.85	17.31	17.80	8.88	9.34	9.40	9.86	10.35
	12H	16.29	16.70	16.80	17.19	17.76	8.94	9.35	9.46	9.85	10.42
12H	4H	16.41	16.97	16.90	17.46	17.93	8.43	8.99	8.91	9.47	9.95
	6H	16.32	16.79	16.84	17.30	17.80	8.75	9.21	9.27	9.73	10.22
	8H	16.29	16.70	16.80	17.19	17.77	8.88	9.30	9.40	9.79	10.36